## Report No.: TERF2410003184ER Page: 68 of 96

Settings

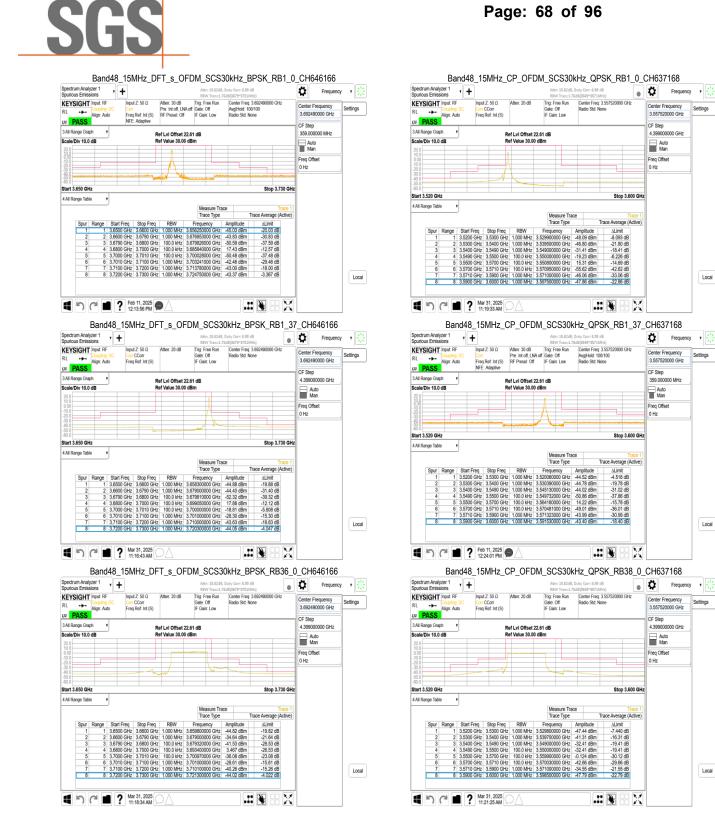
Local

Settings

Local

Settings

Local



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## Report No.: TERF2410003184ER Page: 69 of 96





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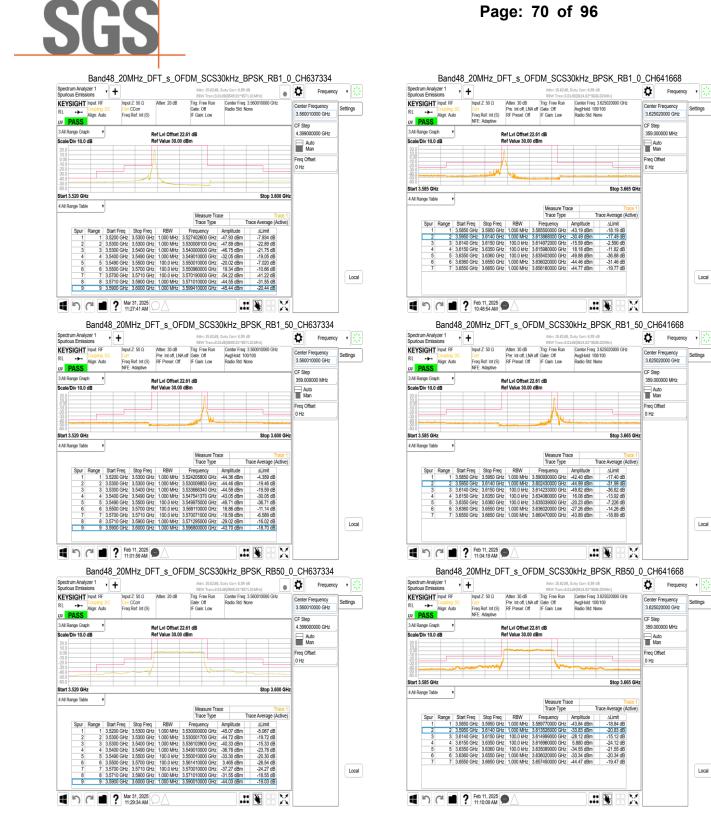
t (886-2) 2299-3279 台灣檢驗科技股份有限公司

SG:

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## Report No.: TERF2410003184ER Page: 70 of 96



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## Report No.: TERF2410003184ER Page: 71 of 96





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## Report No.: TERF2410003184ER Page: 72 of 96



SG:



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■ っ c ■ ? Feb 11, 2025 ●

f (886-2) 2298-0488



# 11 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

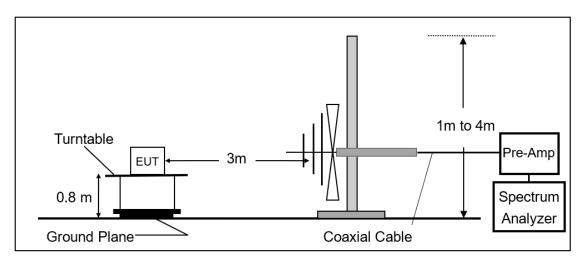
#### 11.1 Standard Applicable

FCC Part 2.1053, Part 96.41, C63.26 Clause 5.7

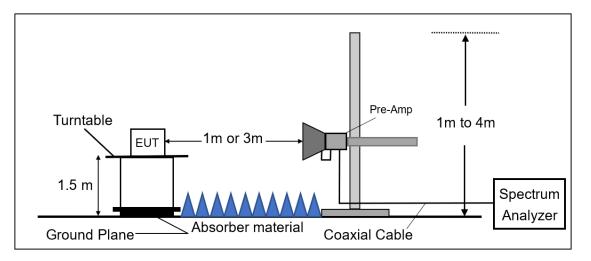
- within 0 MHz to 10 MHz above and below the **assigned channel**  $\leq$  -13 1. dBm/MHz
- 2. greater than 10 MHz above and below the **assigned channel** ≤ -25 dBm/MHz
- any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz 3.

#### 11.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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#### 11.3 **Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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#### 11.4 **Measurement Result:**

Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:LTE B48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	:22.1°C/62%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3555 MHz	Engineer	:Nick Lin

50 Level (dB	m/m)					
40						
20						
0						
-20						
-40	7 8					
-60						
-80						
100 30	8024.	16018. Frequency	24012. (MHz)	32006.	40000	
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
ricq.		Output Level	Gain	Loss	@3m	margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
49.400	-82.05	-68.65	-12.11	-1.29	-40.00	-42.05
134.760	-79.46	-75.53	-1.80	-2.12	-40.00	-39.46
179.380	-78.82	-77.54	1.16	-2.45	-40.00	-38.82
229.820	-76.43	-78.38	4.72	-2.77	-40.00	-36.43
			0.74	-3.07	-40.00	-37.18
281.230	-77.18	-77.82	3.71	-3.07	-40.00	-37.10
281.230 409.270	-77.18 -77.52	-77.82 -77.85	3.71 4.02	-3.69	-40.00	
	-	-				-37.52 -9.24

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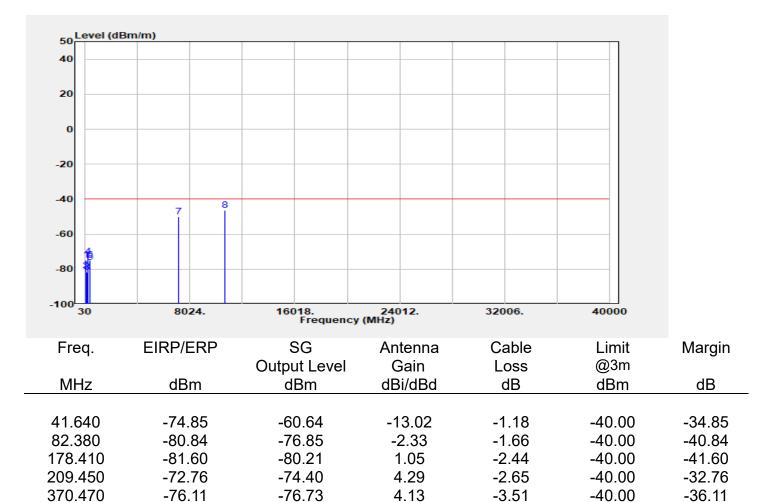
397.630

7110.000

10665.000

Report Number	:TERF2410003184ER
Operation Mode	:LTE B48
Test Mode	:Tx
EUT Pol	:H Plane
Test Frequency	:3555 MHz

Test Site	:SAC 3
Test Date	:2024-12-06
Temp./Humi.	: <b>22.1℃/62%</b>
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

-75.15

-45.08

-38.25

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3.92

10.98

11.43

-74.87

-50.10

-46.52

f (886-2) 2298-0488

-3.64

-16.00

-19.70

-40.00

-40.00

-40.00

-34.87

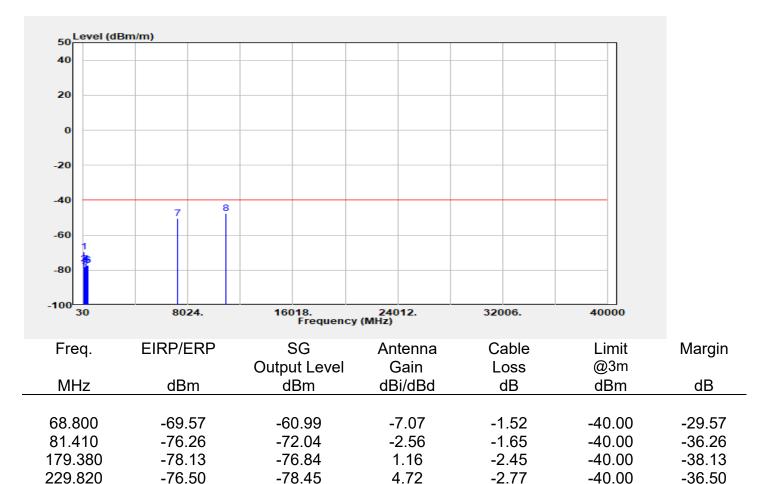
-10.10

-6.52



Report Number	:TERF2410003184ER
Operation Mode	:LTE B48
Test Mode	:Tx
EUT Pol	:H Plane
Test Frequency	:3625 MHz

Test Site	:SAC 3
Test Date	:2024-12-06
Temp./Humi.	: <b>22.1℃/62%</b>
Antenna Pol.	:Vertical
Engineer	:Nick Lin



-77.78

-77.90

-44.90

-38.96

-77.13

-77.30

-50.25

-47.74

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3.71

4.12

10.80

11.15

281.230

371.440

7250.000

10875.000

f (886-2) 2298-0488

-3.07

-3.52

-16.15

-19.94

-40.00

-40.00

-40.00

-40.00

-37.13

-37.30

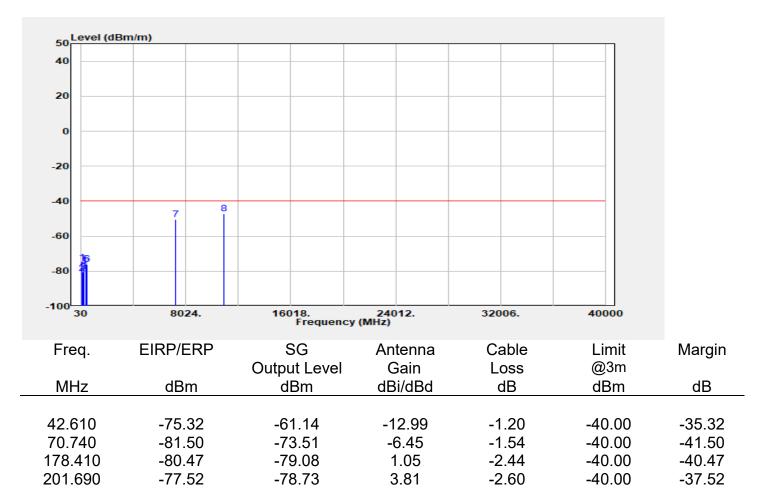
-10.25

-7.74



Report Number	:TERF2410003184ER
Operation Mode	:LTE B48
Test Mode	:Tx
EUT Pol	:H Plane
Test Frequency	:3625 MHz

Test Site	:SAC 3
Test Date	:2024-12-06
Temp./Humi.	: <b>22.1℃/62%</b>
Antenna Pol.	:Horizontal
Engineer	:Nick Lin



-76.47

-76.25

-45.22

-38.31

-76.17

-76.19

-50.57

-47.10

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3.90

4.07

10.80

11.15

-3.60

-4.02

-16.15

-19.94

-40.00

-40.00

-40.00

-40.00

-36.17

-36.19

-10.57

-7.10

388.900

483.960

7250.000

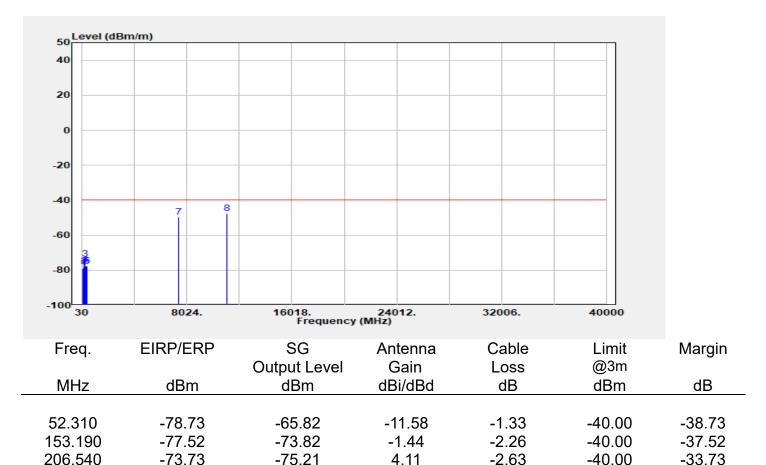
10875.000

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Report Number	:TERF2410003184ER
Operation Mode	:LTE B48
Test Mode	:Tx
EUT Pol	:H Plane
Test Frequency	:3695 MHz

Test Site	:SAC 3
Test Date	:2024-12-06
Temp./Humi.	: <b>22.1℃/62%</b>
Antenna Pol.	:Vertical
Engineer	:Nick Lin



-78.78

-78.41

-78.29

-44.02

-38.75

-76.83

-77.75

-77.54

-49.44

-47.54

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4.72

3.72

4.21

10.90

11.34

-2.77

-3.06

-3.46

-16.33

-20.13

-40.00

-40.00

-40.00

-40.00

-40.00

-36.83

-37.75

-37.54

-9.44

-7.54

229.820

280.260

360.770

7390.000

11085.000

f (886-2) 2298-0488



388.900

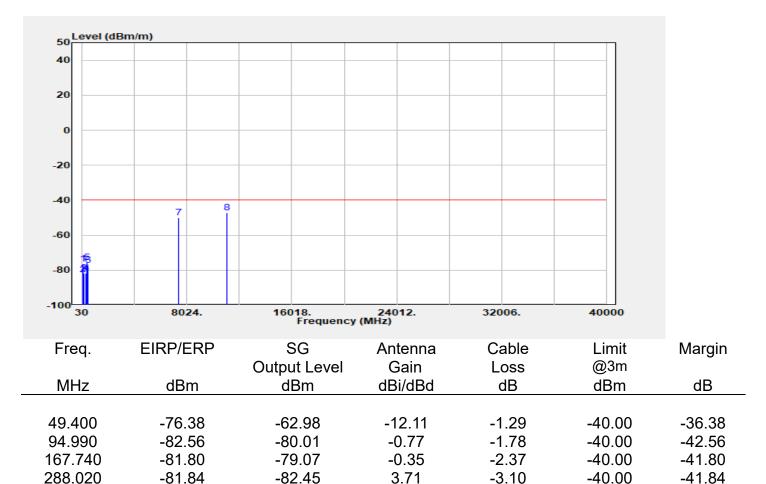
453.890

7390.000

11085.000

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Antenna Pol.	:Horizontal
Engineer	:Nick Lin



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-75.79

-77.08

-44.41

-38.39

-75.49

-77.15

-49.84

-47.18

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3.90

3.82

10.90

11.34

f (886-2) 2298-0488

-3.60

-3.89

-16.33

-20.13

-40.00

-40.00

-40.00

-40.00

-35.49

-37.15

-9.84

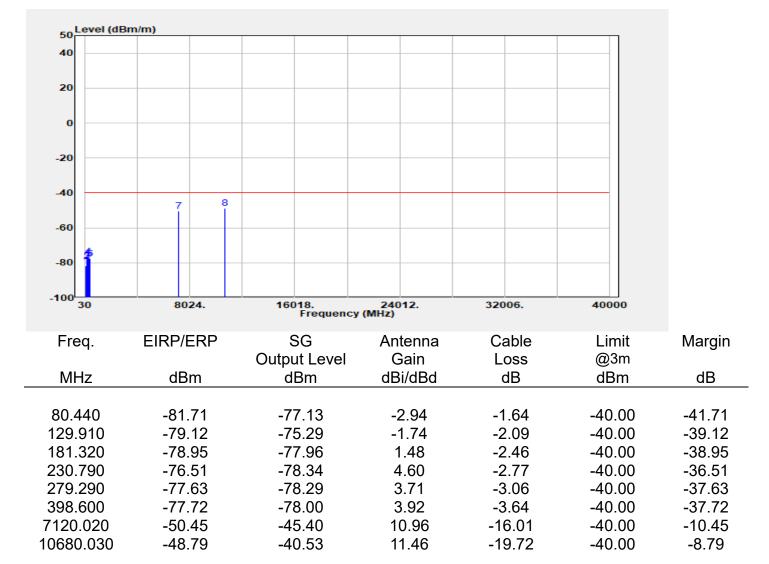
-7.18

Report No.: TERF2410003184ER Page: 81 of 96



## NR

Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	:22.1°C/62%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3560.01 MHz	Engineer	:Nick Lin



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

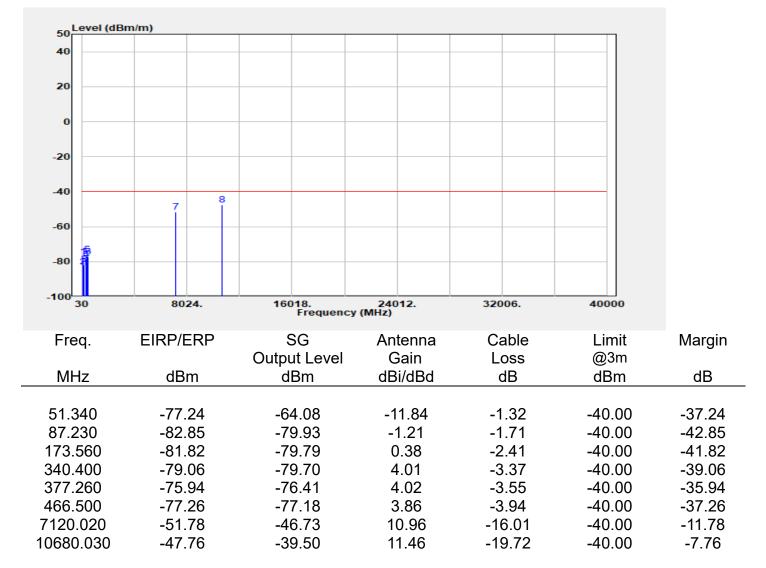
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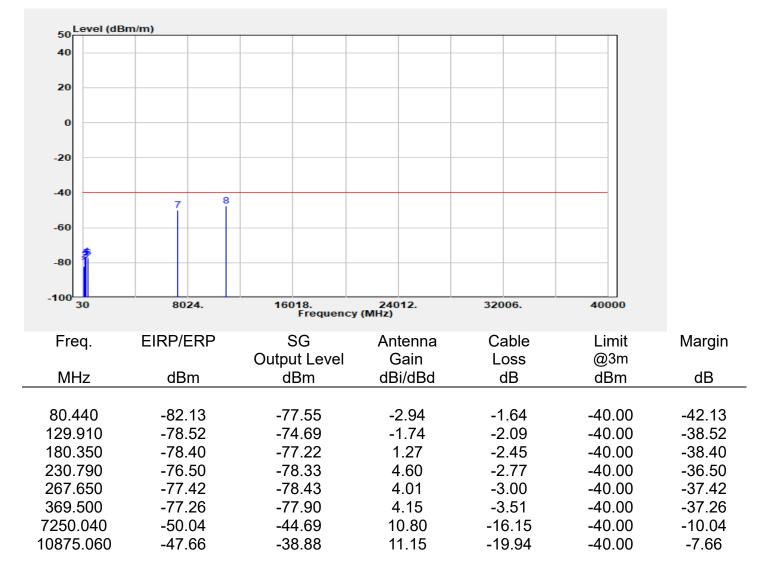
Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	:22.1°C/62%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:3560.01 MHz	Engineer	:Nick Lin



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Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> C <b>/62%</b>
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3625.02 MHz	Engineer	:Nick Lin

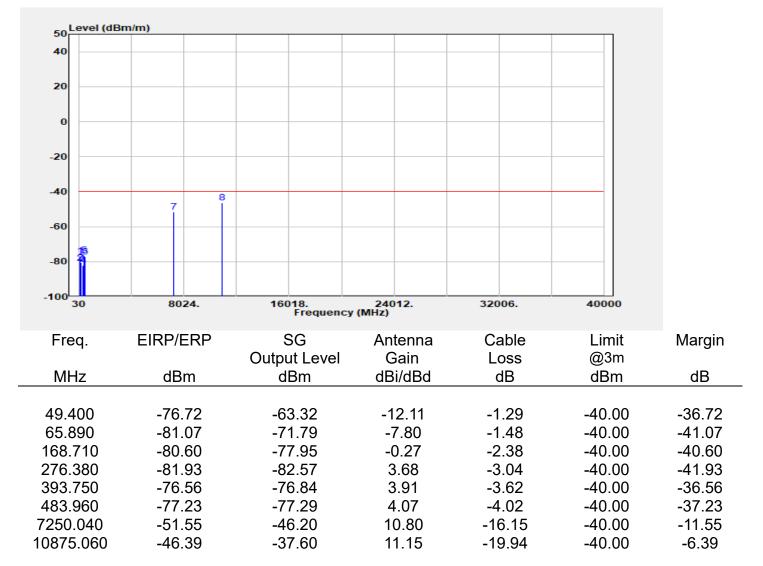


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Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	: <b>22.1°</b> C <b>/62%</b>
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:3625.02 MHz	Engineer	:Nick Lin

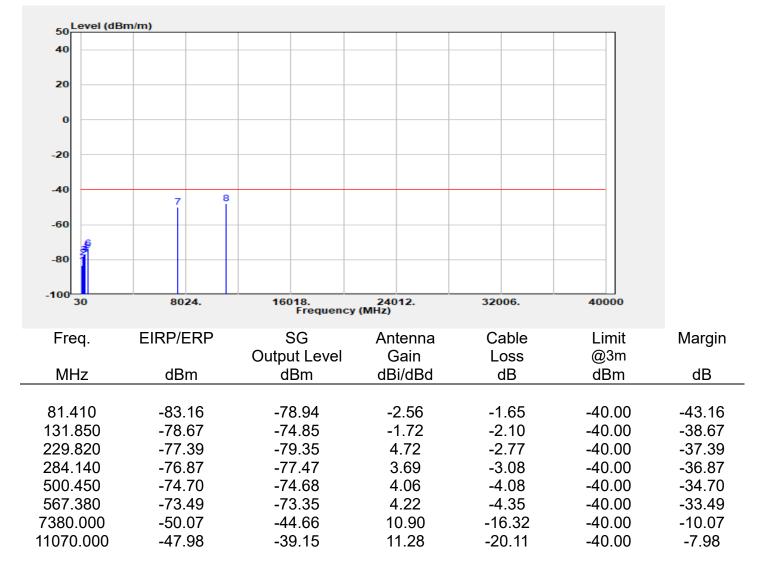


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Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	:22.1°C/62%
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:3690 MHz	Engineer	:Nick Lin
rest Frequency	.3090 MITZ	Engineer	INICK LIT



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Report Number	:TERF2410003184ER	Test Site	:SAC 3
Operation Mode	:RedCap_n48	Test Date	:2024-12-06
Test Mode	:Tx	Temp./Humi.	:22.1°C/62%
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:3690 MHz	Engineer	:Nick Lin

50 Level (dB						
40						
20						
20						
0						
-20						
-40	7 8					
-60						
-80						
100						
20	0024	46040	24042	22006	40000	
30	8024.	16018. Frequency	24012. (MHz)	32006.	40000	
Freq.	8024. EIRP/ERP	16018. Frequency SG		32006. Cable	40000 Limit	Margin
30 Freq.	EIRP/ERP	SG Output Level	(MHz) Antenna Gain	Cable Loss	Limit @3m	-
30		Frequency	(MHz) Antenna	Cable	Limit	Margir dB
30 Freq.	EIRP/ERP	SG Output Level	(MHz) Antenna Gain	Cable Loss	Limit @3m	dB
30 Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	(MHz) Antenna Gain dBi/dBd	Cable Loss dB	Limit @3m dBm	dB -37.29
30 Freq. <u>MHz</u> 51.340	EIRP/ERP dBm -77.29	SG Output Level dBm -64.13	(MHz) Antenna Gain dBi/dBd -11.84	Cable Loss dB -1.32	Limit @3m dBm -40.00	dB -37.29 -40.43
30 Freq. <u>MHz</u> 51.340 149.310	EIRP/ERP dBm -77.29 -80.43	SG Output Level dBm -64.13 -76.59	(MHz) Antenna Gain dBi/dBd -11.84 -1.60	Cable Loss dB -1.32 -2.23	Limit @3m dBm -40.00 -40.00	dB -37.29 -40.43 -42.21
30 Freq. MHz 51.340 149.310 183.260	EIRP/ERP dBm -77.29 -80.43 -82.21	SG Output Level dBm -64.13 -76.59 -81.51	(MHz) Antenna Gain dBi/dBd -11.84 -1.60 1.77	Cable Loss dB -1.32 -2.23 -2.47	Limit @3m dBm -40.00 -40.00 -40.00	dB -37.29 -40.43 -42.21 -36.09
30 Freq. <u>MHz</u> 51.340 149.310 183.260 381.140	EIRP/ERP dBm -77.29 -80.43 -82.21 -76.09	Frequency SG Output Level dBm -64.13 -76.59 -81.51 -76.48	(мнz) Antenna Gain dBi/dBd -11.84 -1.60 1.77 3.96	Cable Loss dB -1.32 -2.23 -2.47 -3.56	Limit @3m dBm -40.00 -40.00 -40.00 -40.00	dB -37.29 -40.43 -42.21 -36.09 -36.93
30 Freq. MHz 51.340 149.310 183.260 381.140 417.030	EIRP/ERP dBm -77.29 -80.43 -82.21 -76.09 -76.93	Frequency SG Output Level dBm -64.13 -76.59 -81.51 -76.48 -77.34	(мнz) Antenna Gain dBi/dBd -11.84 -1.60 1.77 3.96 4.14	Cable Loss dB -1.32 -2.23 -2.47 -3.56 -3.73	Limit @3m dBm -40.00 -40.00 -40.00 -40.00 -40.00	-37.29 -40.43

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# **12 FREQUENCY STABILITY MEASUREMENT**

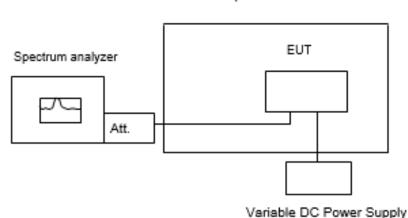
#### 12.1 Standard Applicabl

## FCC §2.1055(a)

The frequency stability shall be sufficient to ensure that the fundamental emis sion stays within the authorized frequency band. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Temperature Chamber

#### 12.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

## 12.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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#### 12.4 **Measurement Result**

Note: The module's normal voltage is 3.3Vdc.

Reference Freq.:	LTE B48 Mid Channel		3625.0000	MHz 10M QPSK CH 55990				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	(ppm)	Limit				
Freq. ERROR vs. VOLTAGE								
3.795	20	3624.999990	-0.0028					
3.3	20	3625.000000	0.0001					
2.805	20	3625.000002	0.0007	+/- 2.5 ppm				
2.5 (End Point)	20	3625.000008 0.0022						
	F	req. ERROR vs. 1	Гетр.					
3.3	-30	3624.999991	-0.0024					
3.3	-20	3624.999994	-0.0018					
3.3	-10	3624.999994	-0.0016					
3.3	0	3624.999978	-0.0061					
3.3	10	3624.999986	-0.0039	+/- 2.5 ppm				
3.3	20	3625.000005	0.0014					
3.3	30	3624.999978	-0.0062					
3.3	40	3625.000009	0.0025					
3.3	50	3625.000000	0.0000					

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			10 D				
5G NR BAND n48 Part96							
Reference Freq.:			Modulation.:	CP-OFDM QPSK			
SCS.:	30 kHz		Bandwidth:	100MHz			
CH	641	668	Freqency(MHz):	3625.02			
	Fre	eq. ERROR vs.	VOLTAGE				
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm			
3.8	20	3625.019987	-0.0037				
3.3	20	3625.019978	-0.0060				
2.81	20	3625.020018	0.0049	+/- 2.5 ppm			
2.5 (End Point)	20	3625.020017	0.0046				
	F	req. ERROR v	s. Temp.				
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	(ppm)	Limit = +/- 2.5 ppm (Hz)			
3.3	-30	3625.019996	-0.0011				
3.3	-20	3625.019989	-0.0032				
3.3	-10	3625.020010	0.0029				
3.3	0	3625.020004	0.0012				
3.3	10	3625.019984	-0.0045	+/- 2.5 ppm			
3.3	20	3625.019989	-0.0031				
3.3	30	3625.019990	-0.0028				
3.3	40	3625.020008	0.0023				
3.3	50	3625.019973	-0.0076				

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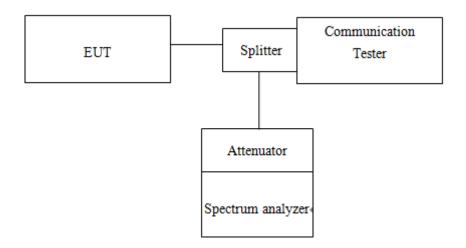


## **13 PEAK TO AVERAGE RATIO**

#### 13.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

#### 13.2 Test SET-UP



#### 13.3 Measurement Procedure

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

#### Measurement Result 13.4

LTE BAND 48									
Channel bandwidth: 5MHz			Cha	nnel band	width: 10M	Hz			
Freq.	СН	PAPR	(dB)	Freq.	CH PAPR (dB)		(dB)		
(MHz)	СП	256QAM	Limit	(MHz)	СП	256QAM	Limit		
3552.5	55265	10.63	13	3555.0	55290	8.48	13		
3625.0	55990	8.28	13	3625.0	55990	6.55	13		
3697.5	56715	8.09	13	3695.0	56690	6.83	13		

LTE BAND 48									
Channel bandwidth: 15MHz			Cha	nnel band	width: 20M	Hz			
Freq.	СН	PAPR	(dB)	Freq.	PAPR (dB)		(dB)		
(MHz)	Сп	256QAM	Limit	(MHz)	CH	256QAM	Limit		
3557.5	55315	6.90	13	3650.0	55340	6.56	13		
3625.0	55990	6.80	13	3625.0	55990	8.35	13		
3692.5	56665	6.80	13	3690.0	56640	10.36	13		

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NR

5G NR BAND n48 Part96(3550 to 3700 MHz)									
DFT-S-OFDM_SCS 30 kHz									
Cha	nnel band	width: 10MH	z	Cha	nnel band	width: 15MH	Z		
Freq.	СН	PAPR (	dB)	Freq.	СН	PAPR (	dB)		
(MHz)	Сп	256QAM	Limit	(MHz)	СП	256QAM	Limit		
3555.00	637000	6.63	13	3557.52	637168	6.94	13		
3625.02	641668	6.47	13	3625.02	641668	6.83	13		
3694.98	646332	6.76	13	3692.49	646166	6.71	13		
	50	G NR BAND	n48 Par	t96(3550 to	3700 MH	z)			
		DFT-S	S-OFDM	_SCS 30 I	kHz				
Cha	nnel band	width: 20MH	z						
Freq.	СН	PAPR (	dB)						
(MHz)	СП	256QAM	Limit						
3560.01	637334	6.75	13						
3625.02	641668	6.69	13						
3690.00	646000	6.98	13						

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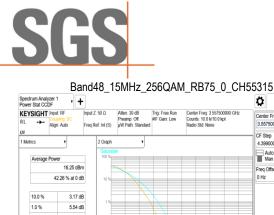
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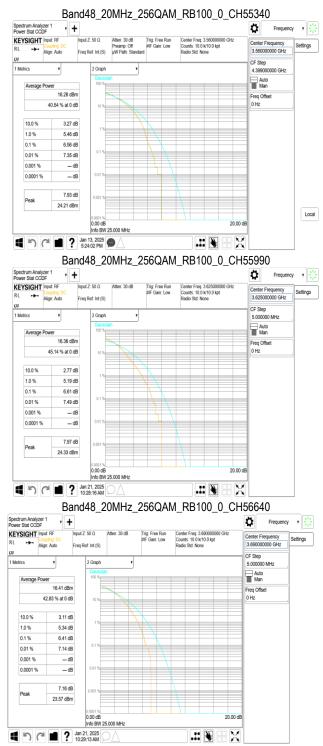
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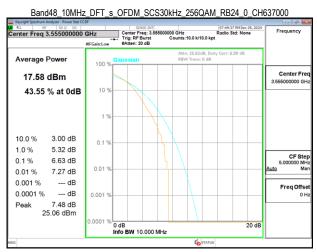
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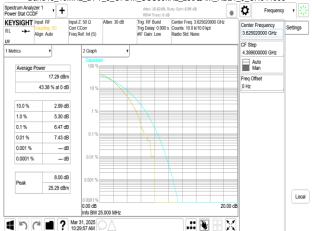
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### NR

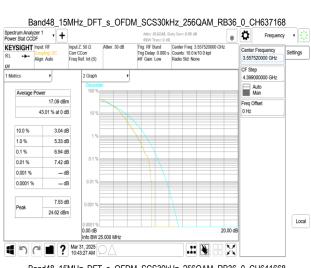


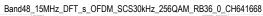
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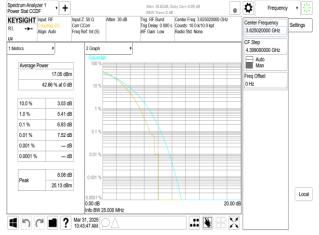


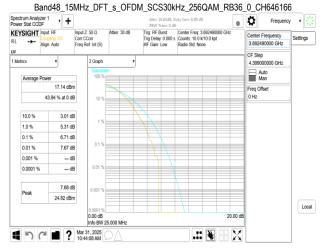
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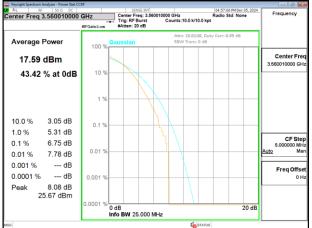
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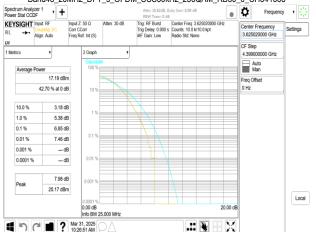
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# SG

#### Band48 20MHz DFT s OFDM SCS30kHz 256QAM RB50 0 CH637334



Band48\_20MHz\_DFT\_s\_OFDM\_SCS30kHz\_256QAM\_RB50\_0\_CH641668



Band48\_20MHz\_DFT\_s\_OFDM\_SCS30kHz\_256QAM\_RB50\_0\_CH646000



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# 14 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

# **15 PHOTOGRAPHS OF EUT**

Please refer to the attached file(EUT Photo)

~ End of Report ~

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